Grade 3 State Standards

Mathematics Standards

Content Standard 1: Students can understand and apply a variety of math concepts.

Benchmark: Students can understand and apply number properties and operations.
- **Grade Level Indicator:** Represent, compare, and order numbers
- **Grade Level Indicator:** Describe and apply properties of numbers
- **Grade Level Indicator:** Classify numbers by divisibility
- **Grade Level Indicator:** Demonstrate ways of performing operations
- **Grade Level Indicator:** Use place value; write numbers in standard, expanded, and exponential form
- **Grade Level Indicator:** Use and interpret operational and relational symbols

Benchmark: Students can understand and apply concepts and procedures of algebra.
- **Grade Level Indicator:** Solve equations and inequalities
- **Grade Level Indicator:** Use variable expressions to model situations
- **Grade Level Indicator:** Explore numerical patterns

Benchmark: Students can understand and apply concepts of geometry.
- **Grade Level Indicator:** Identify, classify, and compare geometric figures
- **Grade Level Indicator:** Describe geometric properties, patterns, and relationships
- **Grade Level Indicator:** Apply the concepts of perimeter, area, and volume

Benchmark: Students can understand and apply concepts of measurement.
- **Grade Level Indicator:** Measure length/distance, time, temperature, weight, mass, and volume
- **Grade Level Indicator:** Estimate measurements with appropriate precision
- **Grade Level Indicator**: Identify and use appropriate units of measurement

Benchmark: Students can understand and apply concepts in probability and statistics.
- **Grade Level Indicator:** Apply probability concepts and counting rules
- **Grade Level Indicator**: Understand and apply measures of central tendency and variability

Content Standard 2: Students can understand and apply methods of estimation.

Benchmark: Students can understand and apply concepts and procedures of standard rounding, order of magnitude, and number sense.
- **Grade Level Indicator:** Use standard rounding to estimate
- **Grade Level Indicator:** Use order of magnitude to estimate
- **Grade Level Indicator:** Use number sense to estimate

Content Standard 3: Students can solve a variety of math problems.

Benchmark: Students can solve math problems

Grade Level Indicator: Solve single-step and multiple-step math problems

Grade Level Indicator: Identify extraneous or insufficient information in problems

Benchmark: Students can understand and apply problem-solving approaches and procedures.

Grade Level Indicator: Choose a method for solving a problem

Content Standard 4: Students can interpret data presented in a variety of ways.

Benchmark: Students can use tables and graphs to locate and read information.

Grade Level Indicator: Locate amounts in specific cells of a table

Benchmark: Students can interpret data from a variety of sources.

Grade Level Indicator: Read amounts on scales of bar and line graphs

Grade Level Indicator: Compare quantities to determine ranks, sums, or differences and to find ratios

Grade Level Indicator: Use tables and graphs to determine rates or identify trends, understand underlying or functional relationships, and generalize or draw conclusions

Performance Standards for Mathematics

High Performance Level: Understands math concepts, solves word problems, and interprets data from graphs and tables. Usually is able to use estimation methods

Distinguished: Understands math concepts, solves word problems, and interprets data from graphs and tables. Usually can use estimation methods.

Accomplished: Understands math concept, solves word problems, and interprets data from graphs and tables. Usually can use estimation methods.

Intermediate Performance Level: Usually can understand math concepts and solve word problems. Sometimes is able to use estimation methods and usually can interpret data from graphs and tables.

Skilled: Usually can understand math concepts use estimation methods. Is able to solve word problems and interpret data from graphs and tables.

Moderate: Usually can understand math concepts and solve word problems. Sometimes can use estimation methods; usually can interpret data from graphs and tables.

Low Performance Level: Sometimes can understand math concepts, but seldom is able to solve word problems. Rarely is able to use estimation methods or interpret data from graphs and tables.

Marginal: Sometimes can understand math concepts but seldom is able to solve word problems or use estimation methods. Rarely can interpret data from graphs and tables.

Weak: Seldom can understand math concepts or solve word problems. Rarely can use estimation methods or interpret data from graphs and tables.

Science Standards

Content Standard 1: Students can understand and apply skills used in scientific inquiry.

Benchmark: Students can understand and apply the processes and skills of scientific inquiry.

Grade Level Indicator: Understand and apply the processes and skills of investigation

Benchmark: Students can analyze and interpret scientific information.

Grade Level Indicator: Analyze and interpret information from scientific studies

Content Standard 2: Students can understand concepts and relationships in life science.

Benchmark: Students can understand structures of living things.

Grade Level Indicator: Understand the structures of living things

Benchmark: Students can understand life cycles.

Grade Level Indicator: Describe and understand life cycles

Benchmark: Students can understand environmental interaction and adaptation.

Grade Level Indicator: Identify and explain the roles of environmental interactions and adaptations

Content Standard 3: Students can understand concepts and relationships in Earth/space sciences.

Benchmark: Students can understand ideas about Earth's composition and structure.

Grade Level Indicator: Describe and understand Earth's composition and structure

Benchmark: Students can understand changes in and around Earth.

Grade Level Indicator: Identify and explain changes in and around Earth

Benchmark: Students can understand concepts relating to the universe.

Grade Level Indicator: Understand concepts and relationships of the universe

Content Standard 4: Students can understand concepts and relationships in physical science.

Benchmark: Students can understand and apply concepts related to mechanics, forces, and motion.

Grade Level Indicator: Describe and explain concepts related to mechanics, forces, and motion

Benchmark: Students can understand and apply the concept of energy.

Grade Level Indicator: Understand the concept of energy and its various forms

Benchmark: Students can understand and identify properties and changes of matter.

Grade Level Indicator: Identify and explain the properties and changes of matter

Literacy Standards

Content Standard 1: Students can comprehend what they read in a variety of literary and informational texts.

Benchmark: Students can understand stated information they have read.
Grade Level Indicator: Understand stated information

Benchmark: Students can determine the meaning of new words from their context.
Grade Level Indicator: Determine the meaning of new words from their context

Benchmark: Students can draw conclusions, make inferences, and deduce meaning.
Grade Level Indicator: Draw conclusions, make inferences, and deduce meaning

Benchmark: Students can infer traits, feelings, and motives of characters.
Grade Level Indicator: Infer traits, feelings, and motives of characters

Benchmark: Students can interpret information in new contexts.
Grade Level Indicator: Interpret information in new contexts

Benchmark: Students can interpret nonliteral language used in a text.
Grade Level Indicator: Interpret nonliteral language

Benchmark: Students can determine the main idea of a text.
Grade Level Indicator: Determine the main idea of a text

Benchmark: Students can identify the writer's views or purpose.
Grade Level Indicator: Identify the author's views or purpose

Benchmark: Students can analyze style or structure.
Grade Level Indicator: Analyze the style or structure of a text

Performance Standards for Literacy

High Performance Level: Understands factual information and new words in context, is able to make inferences, can interpret non-literal language and information in new contexts, and usually can determine a selection's main ideas and analyze its style and structure.

Distinguished: Understands factual information and new words in context. Can make inferences and interpret either non-literal language or information in new contexts. Can determine a selection's main ideas and analyze its style and structure.

Accomplished: Usually understands factual information and new words in context. Usually can make inferences and interpret either non-literal language or information in new contexts. Usually can determine a selection's main ideas and analyze its style and structure.

Intermediate Performance Level: Usually understands factual information and new words in context. Often is able to make inferences and interpret either non-literal language or information in new contexts. Sometimes can determine a selection's main ideas or analyze its style and structure.

Skilled: Usually understands factual information and new words in context. Often can make inferences and interpret either non-literal language or information in new contexts. Usually can determine a selection's main ideas and analyze its style and structure.

Moderate: Usually understands factual information and new words in context. Often is able to make inferences and interpret either non-literal language or information in new contexts. Sometimes can determine a selection's main ideas and analyze its style and structure.

Low Performance Level: Seldom understands factual information or new words in context. Rarely is able to make inferences and interpret either non-literal language or information in new contexts. Seldom can determine a selection's main ideas or analyze its style and structure.

Marginal: Seldom understands factual information or new words in context. Rarely is able to make inferences and interpret either non-literal language or information in new contexts. Seldom can determine a selection's main ideas and analyze aspects of its style and structure.

Weak: Seldom understands factual information or new words in context. Rarely is able to make inferences or to interpret either non-literal language or information in new contexts. Seldom can determine a selection's main ideas or analyze aspects of its style and structure.